

L22	10	21 and (16 same 17)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 11:42
L23	11	21 and (16 and 17)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 13:36
L24	40356	(perpendicular high-density (high near density)) near2 (record\$4 writ\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 13:50
L25	4939	middle near2 zone	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 13:52
L26	25115	(outer outside) near2 zone	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 13:42
L27	16609	(inner inside) near2 zone	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 13:43
L28	135	25 same 26 same 27	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 13:46
L29	59	28 and 8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 13:59
L30	20	29 and 16 and 17	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 13:45
L31	9	28 and 24	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 13:48

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	601123	(writ\$4 record\$3) with data	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:48
L4	812076	(toward direction) with (inner-diameter ID (inner near diameter) inside center middle inward\$3 MD middle-diamter (middle near diameter))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 11:00
L5	808947	(toward direction) with (outer-diameter OD (outer near diameter) outside center middle outward\$3 MD middle-diamter (middle near diameter))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 11:00
L6	1652	1 with 4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:29
L7	1542	1 with 5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:29
L8	1054292	((dis\$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID platter (magnetic storage drive\$1 assembly) near2 (disk\$5 disc\$1 media medium device) (storage near2 drive\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:30
L9	1185	6 and 7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:30
L10	1170	6 same 7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:30
L11	12076	(track near pitch) (head near (skew azimuth))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:36

L12	168	10 and 11 and 8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:37
L13	90	12 and "360" clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:38
L14	38316	(writ\$4 record\$3) with data with (track cylinder)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 11:39
L15	6587	(head transducer) near5 (skew azimuth)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:59
L16	280625	outer-diameter OD (outer near diameter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 11:01
L17	939767	inner-diameter ID (inner near diameter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 11:22
L18	1	14 with 15 with 16 with 17	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 11:26
L19	12	14 same 15 same 16 same 17	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 11:39
L20	19610	(writ\$4 record\$3) with (track cylinder) with direction	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 11:41
L21	543	20 same 15	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 11:42

L32	7970	(perpendicular) near2 (record\$4 writ\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 13:50
L33	87	32 and zone and 11	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 13:51
L34	265	33 and 8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 13:51
L35	82	33 and 8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 13:51
L36	5866	middle near3 zone	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 13:53
L37	2	35 and 36	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 13:53
S1	4	"10262830"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 09:47
S2	2	"20030197968"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/03 17:09
S3	33	(dis\$1 platter) and ((writ\$4 record\$4) with servo with ((dual near direction\$4) bi-direction\$4 bidirection\$4 dual-direction\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/03 17:42
S4	2	"20040090693"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/03 17:18



S5	0	xyratex near technolgy	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/03 17:39
S6	19	"0167452"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/03 17:39
S7	23	((dis\$1 platter) and ((servo near2 (record\$4 writ\$4)) STW) and (((outer adj diameter) OD) same (ID (inner adj diameter)) same (MD (middle adj diameter)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/03 17:55
S8	0	"6714369".URPN	USPAT	OR	ON	2004/08/03 18:02
S9	8	("3099822"   "4414589"   "5333140"   "5448429"   "6005751"   "6172830"   "6359749"   "6388833").PN.	USPAT	OR	ON	2004/08/03 18:02
S10	25546	(writ\$4 record\$3) with servo	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:15
S11	966	head near3 skew	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/05 14:36
S12	156	(head near3 (skew azimuth)) with (positiv\$3 negativ\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/05 14:40
S13	9	((writ\$4 record\$3) with servo) and (disk disc platter) and ((head near3 (skew azimuth)) with (positiv\$3 negativ\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/05 14:40
S14	9008	(writ\$4 record\$3) near2 servo	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/05 16:01
S15	19	((writ\$4 record\$3) near2 servo) and ((inner near diameter) same (outer near diameter) same ((center middle) near diameter))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/05 16:06

S16	1258877	disk disc platter	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/05 16:31
S17	7308	((writ\$4 record\$3) near2 servo) and (disk disc platter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/05 16:31
S18	4700	head near3 (skew azimuth)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/05 16:32
S19	2	((((writ\$4 record\$3) near2 servo) and (disk disc platter)) and ((inner near diameter) same (outer near diameter) same ((center middle) near diameter))) and (head near3 (skew azimuth))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/05 16:32
S20	19	((writ\$4 record\$3) near2 servo) and (disk disc platter)) and ((inner near diameter) same (outer near diameter) same ((center middle) near diameter))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/05 16:32
S21	26439	(writ\$4 record\$3) near2 (servo clock)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/06 10:25
S22	436405	(multiple dual bi two "2") near2 (pass direction\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/06 10:28
S23	3175	((writ\$4 record\$3) near2 (servo clock)) and ((multiple dual bi two "2") near2 (pass direction\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/06 10:28
S24	220	((writ\$4 record\$3) near2 (servo clock)) same ((multiple dual bi two "2") near2 (pass direction\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/06 10:29
S25	91	((writ\$4 record\$3) near2 (servo clock)) same ((multiple dual bi two "2") near2 (pass direction\$4))) and "360".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/06 10:29

S26	891	(inner near diameter) same (outer near diameter) same ((center middle) near diameter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:17
S27	2	((writ\$4 record\$3) near2 (servo clock)) same ((multiple dual bi two "2") near2 (pass direction\$4))) and ((inner near diameter) same (outer near diameter) same ((center middle) near diameter))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/06 10:29
S28	2	((writ\$4 record\$3) near2 (servo clock)) and ((multiple dual bi two "2") near2 (pass direction\$4))) and ((inner near diameter) same (outer near diameter) same ((center middle) near diameter))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/08/06 10:29
S29	2	"6185063".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 09:47
S30	9	("3099822"   "4414589"   "5333140"   "5448429"   "6005751"   "6172830"   "6359749"   "6388833").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/02/01 09:53
S31	85	shingled with (track data cylinder)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 09:56
S32	1054292	((dis\$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID platter (magnetic storage drive\$1 assembly) near2 (disk\$5 disc\$1 media medium device) (storage near2 drive\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:01
S33	7563	perpendicular near2 record\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 09:57
S34	4258	longitudinal near2 record\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 09:57

S35	12	S31 and S32	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:00
S36	2	S35 and (S33 S34)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 09:58
S37	0	S35 and S33 and S34	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 09:58
S38	5205	S32 and S33	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:01
S39	1016	S32 and S33 and S34	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:01
S40	194529	inner-diameter (inner near diameter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:05
S41	232389	outer-diameter (outer near diameter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:06
S42	94103	S40 same S41	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:04
S43	2146729	(writ\$3 record\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:04
S44	1946925	track cylinder	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:05



S45	939767	inner-diameter (inner near diameter) ID "(ID)"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:07
S46	280625	outer-diameter (outer near diameter) OD "(OD)"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:06
S47	6196	(S43 same S44 same S45)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:09
S48	1419	(S43 same S44 same S46)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:08
S49	723	S32 and S42 and S47 and S48	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:12
S50	2528	(S43 with S44 with S45)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:09
S51	506	(S43 with S44 with S46)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:10
S52	320	S50 same S51	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:11
S53	241	S32 and S42 and S50 and S51	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:12
S54	237	S52 and S53	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:12

S55	96750	"360".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:13
S56	166	S54 and S55	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:13